PLUI	MBING FLOOR D	RAIN SCHEDU	JLE	
NO.	ITEM	LOCATION	TECHNICAL DATA	REMARKS
D-1	ROOF DRAIN	ROOF	CI BODY, POLYETHYLENE DOME	-
D-2	OVERFLOW ROOF DRAIN	ROOF	CI BODY, POLYETHYLENE DOME	-
D-3	FLOOR DRAIN	CLEAN ROOM CHASE	STAINLESS STEEL BODY & GRATE	-
D-4	FLOOR DRAIN	PENTHOUSE	CI BODY & TRACTOR GRATE	-
D-5	FLOOR DRAIN	TOILET ROOM	CI BODY, SATIN NICKEL BRONZE RIM & GRATE	-
D-6	FLOOR DRAIN	MECH. RM	CI BODY & TRACTOR GRATE	-
D-7	GUTTER DRAIN	-	-	-

NOTE:
INSTALL 4" DEEP TRAP TO ALL FLOOR DRAINS EXCEPT D-1, D-2 & D-5.

W	WATER HEATER SCHEDULE												
NO.	ITEM	LOCATION	CAPACITY GPM	HEATING MEDIUM	C.W. INLET/ OUTLET	H.W. INLET/ OUTLET	STEAM LB / HR	REMARKS					
PH-1.1	DOMESTIC HOT WATER HEATER		29	STEAM	40° F	140° F	1,449	AJAX BOILER MINI PACK SI-5-DW-SP-D					
PH-1.2	DOMESTIC HOT WATER HEATER		29	STEAM	40° F	140° F	1,449	AJAX BOILER MINI PACK SI-5-DW-SP-D					
PH-2.1	LAB HOT WATER HEATER	FIRST FLOOR MECHANICAL RM	29	STEAM	40° F	140° F	1,449	AJAX BOILER MINI PACK SI-5-DW-SP-D					
PH-2.2	LAB HOT WATER HEATER	FIRST FLOOR MECHANICAL RM	29	STEAM	40° F	140° F	1,449	AJAX BOILER MINI PACK SI-5-DW-SP-D					

PLU	MBING SPECIAL	TIES SCHE	DULE	
NO.	ITEM	LOCATION	REMARKS	
HB-1	HOSE BIBB	INTERIOR	3/4" CW	W/ VB,
TP-1	HOSE BIBB	INTERIOR	3/4" CW	W/ VB, PRESSURE DROP ACTIVATED
TP-2	HOSE BIBB	INTERIOR	3/4" CW	W/ VB, ELECTRONIC

FUN	FUME HOOD/BIO SAFETY CABINET SCHEDULE											
HOOD	ROOM	WIDTH	LABORATO	ORY WASTE							REMARKS	
TYPE	NO.	(in)	WASTE	VENT	LCW	CDA	VAC	ROW	PCW	UN2		
FH-1	120,121	72	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	-	-	1/2"	PRE-PIPED	
FH-2	126,224,230,232,266,267	72, 48	1-1/2"	1-1/2"	1/2"	1/2"	-	1	-	1/2"	PRE-PIPED	
FH-3	126,165,226,227,236,237	72, 60, 48	-	-	-	1/2"	-	1	1/2"	1/2"	PRE-PIPED	
FH-4	130,131	72, 48	1-1/2"	1-1/2"	1/2"	1/2"	-	1/2"	-	1/2"	PRE-PIPED	
FH-5	133	72	1-1/2"	1-1/2"	1/2"	-	1/2"	1/2"	-	1/2"	PRE-PIPED	
FH-6	137	72	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	-	1/2"	PRE-PIPED	
FH-7	181,183	48	1-1/2"	1-1/2"	1/2"	-	-	-	-	-	PRE-PIPED	
FH-8	137	72	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	-	1/2"	1/2"	PRE-PIPED	
FH-9	145	72	1-1/2"	1-1/2"	1/2"	1/2"	-	1/2"	-	1/2"	PRE-PIPED	
FH-10	234,237	72, 48	1-1/2"	1-1/2"	1/2"	1/2"	-	-	1/2"	1/2"	PRE-PIPED	
FH-11	267	48	1-1/2"	1-1/2"	1/2"	1/2"	1/2"	-	-	1/2"	PRE-PIPED	
				_								

1. SEE FUMEHOOD SCHEDULE DRAWING QL-011 FOR QUANTITY OF HOODS PER EACH ROOM.

VACUUM EQUIPMENT SCHEDULE											
NO.	EQUIPMENT	LOCATION	DESIGN CAPACITY	WORKING PRESSURE		RECEIVER	ELECTRICAL CHARACTERISTICS	EMERGENCY POWER	REMARKS		
								REQUIRED			
PV-1.1	VACUUM PUMP	PENTHOUSE	34 SCFM	24" Hg	5	120 GAL.	460V/1PH/60HZ	NO	BEACON MEDAES MODEL LTV-5D-H120		

COMPRESSED AIR TANK EQUIPMENT SCHEDULE											
NO.	EQUIPMENT	LOCATION	DESIGN CAPACITY	WORKING PRESSURE		RECEIVER	ELECTRICAL CHARACTERISTICS	EMERGENCY POWER REQUIRED	REMARKS		
PC-1.1	TANK	MECHANICAL ROOM	-	150 PSI	_	300 GAL.	-	NO	HANSON MFG. 0-36-VA-300-R		
				100101				110	0-30-474-300-10		

F	PUMP SCHEDU	JLE						
NO.	ITEM	LOCATION	GPM	FT. HD.	HP.	RPM	ELEC. CHAR.	REMARKS
		FIRST FLOOR MECH. RM.	80	138	7.5	3600	460/3/60	ARMSTRONG 6800 IVS-DE-24040S
PP-1.1	DOMESTIC WATER BOOSTER PUMP	FIRST FLOOR MECH. RM.	80	138	7.5	3600	460/3/60	
		FIRST FLOOR MECH. RM.	80	138	7.5	3600	460/3/60	SPARE
PP-1.2	DOMESTIC HOT WATER CIRCULATING PUMP	FIRST FLOOR MECH. RM.	-	-	.4	3450	120V/1PH/60HZ	B&G PL55B
PP-1.3	LAB HOT WATER CIRCULATING PUMP	FIRST FLOOR MECH. RM.	-	1	.4	3450	120V/1PH/60HZ	B&G PL55B
PP-2.1	ELEVATOR PIT SUMP PUMP	BASEMENT	50	21	.5	3600	460/3/60	STANCOR MODEL SE-50-O/M SUBMERSIBLE PUMP, WITH FLOAT, HARD WIRED OIL-MINDER CONTROL, PROBE & ACCESSORIES
PP-3.1	SAN LIFT STATION	BASEMENT	85	31.3	3	3390	460/3/60	FLYGT MP3068 SUBMERSIBLE GRINDER PUMP, WITH TOP PRE-ENGINEERED FIBERGLASS PUMP STATION. 1/4" THICK TOP, PUMP CONTROL PANEL
PP-3.2	SAN LIFT STATION	BASEMENT	85	31.3	3	3390	460/3/60	FLYGT MP3068 SUBMERSIBLE GRINDER PUMP, WITH TOP PRE-ENGINEERED FIBERGLASS PUMP STATION. 1/4" THICK TOP, PUMP CONTROL PANEL
PP-4.1	STORM LIFT STATION	BASEMENT	25	18.5	2	3390	460/3/60	FLYGT DP3045 SUBMERSIBLE PUMP, WITH TOP PRE-ENGINEERED FIBERGLASS PUMP STATION. 1/4" THICK TOP, PUMP CONTROL PANEL
PP-4.2	STORM LIFT STATION	BASEMENT	25	18.5	2	3390	460/3/60	FLYGT DP3045 SUBMERSIBLE PUMP, WITH TOP PRE-ENGINEERED FIBERGLASS PUMP STATION. 1/4" THICK TOP, PUMP CONTROL PANEL
PP-5.1	PCW PUMPS	FIRST FLOOR MECH. RM.	148	161.7	10	3480	460/3/60	GRUNDFOS MODEL CRE32-2 WITH INTEGRAL VFD
PP-5.2	PCW PUMPS	FIRST FLOOR MECH. RM.	148	161.7	10	3480	460/3/60	GRUNDFOS MODEL CRE32-2 WITH INTEGRAL VFD
PP-6.1	EWC CIRCULATING PUMP	PENTHOUSE MECH. RM.	-	-	1/12	2650	115/1/60	B&G PL30B
PP-7.1	TEMPERED WATER CIRCULATING PUMP	FIRST FLOOR MECH. RM.	-	-	.4	3450	120V/1PH/60HZ	B&G PL55B

PI	LUMBING FIXTU	RE SC	CHEDI	JLE						
		FIXTU	RE UNIT	F	PIPE DIAME	TER(INCH.))			
NO.	FIXTURE	WATER	DRAIN	C.W.	H.W.	EFW	DRAIN	VENT	REMARKS	
P-1	WATER CLOSET	5	4	1"	-	1	4"	2"	-	
P-1A	WATER CLOSET	5	4	1"	-	-	4"	2"	-	
P-2	URINAL	5	4	3/4"	-	-	2"	1-1/2"	-	
P-2A	URINAL	5	4	3/4"	-	-	2"	1-1/2"	-	
P-3	LAVATORY	2	1	1/2"	1/2"	-	1-1/4"X 1-1/2"	1-1/2"	-	
P-3A	LAVATORY	2	1	1/2"	1/2"	-	1-1/4"X 1-1/2"	1-1/2"	-	
P-4	MOP RECEPTOR	3	5	3/4"	3/4"	-	3"	1-1/2"	-	
P-5	ELECTRIC WATER COOLER	.25	.5	1/2"	-	-	1-1/2"	1-1/2"	HALSEY TAYLOR SHELF MODEL # 27107, HALSEY TAYLOR REMOTE CHILLER SJ10-Q	
P-6	SHOWER	4	2	1/2"	1/2"	-	2"	1-1/2"	-	
P-7	SINK	2	2	1/2"	1/2"	-	1-1/2"	1-1/2"	-	

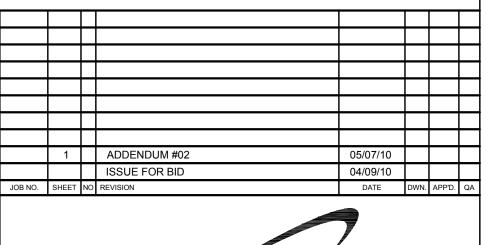
1. COORDINATE EXACT LOCATION AND INSTALLATION DIMENSIONS FOR ALL FIXTURES WITH OWNER.

LABC	LABORATORY FIXTURE & EQUIPMENT SCHEDULE																
ROOM NO.	ITEM NO.	FIXTURE OR EQUIPMENT	FIXTURE UNITS		FIXTURE UNITS		LAB COLD	LAB HOT	COLD	НОТ	REVERSE OSMOSIS	TEMPERED WATER	TEMPERED WATER	LABOR	ATORY/SA WASTE	NITARY	REMARKS
ROOM NO.	TIEWINO.	· ·	WATER	DRAIN	WATER	WATER	WATER	WATER	OSINOSIS	TO EYEWASH	TO SAFETY SHOWER	WASTE	VENT	INDIRECT WASTE	KEWIARKS		
GENERAL	L-1	CUP SINK	2	2	1/2"	-	-	-	-	-	-	1-1/2" TRAP & 2" DRAIN	1-1/2"	-	-		
GENERAL	L-2	LAB SINK	-	-	1/2"	1/2"	-	-	2"	3/4"	-	1-1/2" TRAP & 2" DRAIN	1-1/2"	-	-		
GENERAL	L-3	LAB SINK	-	-	-	-	-	-	-	-	-	1-1/2" TRAP & 2" DRAIN	1-1/2"	-	-		
GENERAL	L-4	SAFETY SHOWER EYE WASH	20	2	-	-	-	-	-	3/4"	1-1/2"	1-1/2" TRAP & 1-1/2" DRAIN	1-1/2"	-	-		
199	L-5	SINK	2	2	-	-	1/2"	1/2"	-	-	-	1-1/2" TRAP & 1-1/2" DRAIN	1-1/2"	-	-		

	PROCESS COOLING WATER SCHEDULE													
NO.	ITEM	LOCATION		PROCESS WATER CHILLED WATER SIDE SIDE						REMARKS				
			GPM	FT. HD.	TEMP IN °F	TEMP OUT °F	GPM	FT. HD.	TEMP IN °F	TEMP OUT °F	KLIMAKKO			
AS-1.1	AIR SEPERATOR	MECH. ROOM.					-				AMTROL 3AS			
ET-1.1	EXPANSION TANK	MECH. ROOM.					-				AMTROL 35LBC			
UV-1.1	ULTRAVIOLET LIGHT	MECH. ROOM.					-				AQUAFINE CORPORATION SP-1			
F-1.1	WATER FILTER	MECH. ROOM.					-				PALL CORPORATION 36MSO2-316-4FD-C150UM-IP PALL CORPORATION PROFILE 2 FILTER ELEMENTS			
F-1.1	MIXED BED ION EXCHANGE	MECH. ROOM.					-				SIEMENS SERVICE SDIFRP TANK			
HX-1.1	HEAT EXCHANGER	MECH. ROOM.	150	18	70	60.0	150	ALFA LAVAL M10-BFG, 23 PLATES EXPANDABLE TO 33, 4" NOZZLE						



1101 King Street | Suite 400 | Alexandria, Virginia 22314-2944 | 703.518.8500 IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER THESE DOCUMENTS IN ANY WAY UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED ARCHITECT.





UNDER CONTRACT WITH UNITED STATES DEPARTMENT OF ENERGY PLANT ENGINEERING DIVISION UPTON, NEW YORK 11973

JOB TITLE			DWG. TITLE					
INTERDISCIPLINA SCIENCE BUILDIN		PLUMBING SCHEDULES						
ILR,GPP,LNI, HEM	DATE		ACCT. NO.	SHEET OF				
-	10/2	3/09						
SCALE	DWN. BY	REV'D BY	JOB NO.	DWG. NO.				
NONE	SFD	KEY	079872					
ESHQ RISK LEVEL	APP'D. BY		BLDG. NO.	PP-601				
-	-	-		FF-001				
FUENIANE			Ī					